

	Application No.	Applicant(s)	
Notice of Allowability	10/808,302 Examiner	TAYAMA ET AL.	
·			
	Hai H. Huynh	3747	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comr GHTS. This application is	in this application. If not included nunication will be mailed in due course. THIS	
1. This communication is responsive to <u>application filed on Management</u>	arch 25, 2004.		
2. The allowed claim(s) is/are <u>1-28</u> .			
3. \boxtimes The drawings filed on <u>25 March 2004</u> are accepted by the l	Examiner.		
 4. Acknowledgment is made of a claim for foreign priority unapplication. a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Topies of the certified copies of the priority documents have international Bureau (PCT Rule 17.2(a)). * Certified copies not received:	been received. been received in Applicat	ion No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the such sheet. Replacement sheet(s) should be labeled as such in the deposation of the such sheet. Replacement sheet(s) should be labeled as such in the deposation of the such sheet. 7. DEPOSIT OF and/or INFORMATION about the deposation of the such sheet. Replacement regarding REQUIREMENT is attached Examiner's comment regarding REQUIREMENT is attached. 	on's Patent Drawing Reviews Amendment / Comment of Reviews 84(c)) should be written on the header according to 37 Country of BIOLOGICAL MA	or in the Office action of the drawings in the front (not the back) of FR 1.121(d). FERIAL must be submitted. Note the	
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 6-9-04 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. Interview Paper No 8), 7. Examiner	nformal Patent Application (PTO-152) Summary (PTO-413), ./Mail Date s Amendment/Comment s Statement of Reasons for Allowance	

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Allowable Subject Matter

1. Claims 1-28 are allowed.

2. The following is an examiner's statement of reasons for allowance:

The prior art made of record fails to teach/show a controller configured to selectively control the fuel injection valve to use a first fuel injection timing when the controller determines that a stratified air-fuel mixture will be difficult to form during a second fuel injection timing based on a determination of the engine operation parameter by the at least one sensor, the first fuel injection timing being set to control the injection valve to inject the first fuel stream during an intake stroke while a piston in the combustion chamber is approximately at an intake top dead center position such that a majority of the first fuel stream injected from the fuel injection valve is received inside a cavity formed on the piston.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai H. Huynh whose telephone number is (571) 272-4844. The examiner can normally be reached on Monday through Thursday from 7:30 am to 6:00 pm.

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The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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